

SUPPLEMENT

THE INSTITUTION OF PRODUCTION ENGINEERS, 10 CHESTERFIELD STREET, MAYFAIR, LONDON, W.1

Advance Notice

I.Prod.E. SUMMER SCHOOL CRANFIELD 29th August - 1st September 1961

THE INTER-RELATION OF WORK STUDY, ERGONOMICS, OPERATIONAL RESEARCH AND CYBERNETICS AND THEIR APPLICATION TO PRODUCTION ENGINEERING

The School will be held at the
COLLEGE OF AERONAUTICS, CRANFIELD

Assemble 6 p.m. on Tuesday, 29th August; disperse after lunch on Friday, 1st September.

Lectures will be given in the mornings and on two evenings by a team of leading industrialists and educationalists. Professor Loxham and Mr. Seymour Hills will arrange for **demonstrations** in their finely equipped laboratories in the afternoons.

Accommodation: The excellent accommodation and catering in the Halls at Cranfield will be available. Early application, using the form below, is advisable as the number of places is limited to 120.

Cost: The inclusive fee for the School, which will also cover accommodation, meals and gratuities is **10 guineas**.

Application Form

SUMMER SCHOOL, 29th AUGUST - 1st SEPTEMBER, 1961, CRANFIELD.

Please reserve a place for.....

of the

Remittance of £10 10s. (made payable to The Institution of Production Engineers) is enclosed.

Please return this form to: **The Secretary, 10 Chesterfield Street, Mayfair, London, W.1.**

TWO-DAY MEETING, LONDON, SPRING, 1962

"DESIGN FOR AUTOMATED PRODUCTION"

(Product, Tool and Method)

A Two-Day Meeting, to be held in London in the Spring of 1962, is being planned by the Institution, on the above theme.

It is intended that Papers at this Meeting will cover **design aspects of product** and tool for advanced and automated methods of production, and that the final session will take the form of an open discussion in which the speakers will take part.

Members of the Institution who would like to offer Papers for presentation and discussion at this Meeting are invited to submit titles and synopses (500 words) to the Papers Committee for consideration by not later than **14th June, 1961**. Correspondence should be addressed to:

The Secretary,
The Papers Committee,
10 Chesterfield Street,
Mayfair, London, W.1.

MATERIALS HANDLING CONVENTION, 1961

"PROFIT BY HANDLING!"

The Materials Handling Group of the Institution is to hold a Convention in London on the theme: "**Profit by Handling!**" The Convention will study the methods and administration of handling materials from source to consumer with a view to lower costs.

Reserve the date now — 3rd and 4th November, 1961.

Full details will be announced in subsequent issues of the Supplement.

RESEARCH FELLOWSHIP IN PRODUCTION ENGINEERING

It is announced by the Birmingham College of Advanced Technology that in support of the College policy to promote and develop research activities, Messrs. Joseph Lucas Ltd., Birmingham, have established a Research Fellowship in the Department of Production Engineering.

The Fellowship will be known as the **Joseph Lucas Research Fellowship in Production Engineering**, and will be tenable normally for a period of two years with provision for extension to three years, and valued at £1,300 to £1,500 per annum.

**"AUTOMATION
— MEN AND
MONEY"
—
CONFERENCE
at
HARROGATE
JUNE, 1961**

The first British Conference on the social and economic effects of automation, sponsored by eight major institutions, including The Institution of Production Engineers, under the aegis of The British Conference on Automation and Computation, is to be held at Harrogate from 27th - 30th June, 1961. It will be opened by **The Rt. Hon. Viscount Hailsham, Q.C.**, Lord President of the Council and Minister for Science.

The Chairman of the Conference will be **Sir Walter Puckey**, Past President of the Institution and Chairman of B.C.A.C. Other Sessions will be Chaired by **Mr. R. H. S. Turner**, Chairman of the Institution's Council and **Mr. W. F. S. Woodford**, Institution Secretary. Papers will be given by **Mr. A. L. Stuchbery**, Vice-Chairman of Council, whose subject will be "Physical Requirements of Automation"; and **Mr. A. A. Jacobsen**, A.M.I.Prod.E., who is to present a Case Study on "Economic Aspects — Internal to the Firm".

Full details of the programme have already been circulated, but further copies and application forms may be obtained by using the form below.

To: **Mrs. J. Hodson,**
Conference Secretary,
80 Fetter Lane, London, E.C.4.

"AUTOMATION — MEN AND MONEY"
Conference, Harrogate, 27th - 30th June, 1961.

Please send full programme details and application form to:

NAME.....

ADDRESS.....

PLEASE USE BLOCK LETTERS

IPR/JUNE

Production Appointments

BULLETIN No. 93 JUNE, 1961

The last date for receiving material for insertion in the following month's bulletin is the 20th of each month, and cancellations cannot be accepted after this date. Correspondence should be addressed to: The Publications Department, The Institution of Production Engineers, 10 Chesterfield Street, Mayfair, London, W.1 (Telephone: GROsvenor 5254).

RATES — Run-on, per appointment: £4 4s. 0d. up to 100 words; £1 1s. 0d. for each additional 100 words or part thereof. Special rate for firms affiliated to the Institution, technical colleges and universities: £2 2s. 0d. per appointment up to 100 words, and 10s. 6d. for each additional 100 words or part thereof.

Displayed: £5 per single-column inch (column width 3½ in.). Special rate for firms affiliated to the Institution, technical colleges and universities: £5 10s. 0d. per single-column inch. Agency discount on displayed advertisements 10%.

Advertisers are advised that better response is likely if, in addition to essential qualifications, the following information is given:

(a) Location of appointment; (b) Status in the organisation and scope of promotion; (c) Salary range and age range. Advertisers are asked to advise the Institution when appointments are filled. The Institution reserves the right to refuse or withdraw any announcement and also to make any alteration in the wording to ensure conformity with the Institution standards. *Members interested in the following appointments should make application in accordance with the terms of notice. No correspondence can be undertaken by the Secretary other than the forwarding of replies to Box Nos.*

A well-established Engineering Company with Head Office in London requires to make the following appointments to their Special Projects Division:

I. SENIOR PRODUCTION ENGINEER 2. METHODS ENGINEER

The Senior Production Engineer would be directly responsible to a Director of the Company and would be concerned in the direction and co-ordination of all activities associated with the setting up of new factories overseas.

He must have had extensive production management experience of mass production in the light engineering industry, with varied and up-to-date knowledge of machine tools, production methods and techniques. Age preferred 40 - 50.

The Methods Engineer would be responsible to the Senior Production Engineer for the industrial engineering aspects of the various projects involved. He should have served an apprenticeship and had wide industrial experience in light engineering industry, including tool design and methods planning: these are essential. Work Study experience is an advantage. Age preferred 30 - 45.

Qualifications required for both these posts:

University degree in mechanical engineering, A.M.I.Mech.E. or A.M.I.E.E. or A.M.I.Prod.E.

Salaries will be commensurate with experience and qualifications, and could be up to £3,000.

These are new appointments of considerable interest and responsibility, involving frequent visits of short duration abroad and offering very good chances of further advancement.

Applications, giving full details of experience and qualifications, should be sent in confidence to:

N. E. Cornish,

L. W. Bailey & Partners Ltd.,

Industrial Consultants,

Ensign House, 190 Northolt Road, Harrow, Middlesex.



LOCKHEED HYDRAULIC BRAKE CO. LTD.

AND ASSOCIATED COMPANIES
LEAMINGTON SPA, WARWICKSHIRE.
One of the Companies of the Automotive Products Group

SENIOR PROJECT ENGINEER

Applications are invited to fill the above vacancy in the Central Planning Division of this Group of Companies.

The position involves responsibility for the co-ordination on a Company-wide basis of:

- (a) Group Plant and Equipment Capacity Provisioning;
- (b) Group Capital Expenditure Brochures;
- (c) Provisioning, progressing and allocation of buildings and space;

and will include contacts and discussion at Divisional Executive level.

This necessitates the knowledge and qualities associated with an Industrial Engineer of mature experience in this field, with a personality which would enable the successful applicant to effectively and tactfully negotiate agreement, co-ordinate decisions, and subsequently to action and progress these to a successful conclusion.

Experience should include a working knowledge of machine capacity and loading, Plant Layout, Methods Engineering, Modern Machine Tools, including Transfer Machines, Process Plant and Equipment, and of modern factory and office building and mains services.

Academic qualifications, whilst of considerable advantage, could in this instance be secondary to previous successful practice in a similar field of responsibility.

Applications giving brief details of experience, qualifications and present salary to:

Employment Officer,

Lockheed Hydraulic Brake Co. Ltd.,
Tachbrook Road, Leamington Spa, Warwickshire.

GENERAL WORKS MANAGER

An expanding, medium-sized light engineering company in the Midlands requires a Chief Production Executive.

Desirable qualifications are: 36-45 years of age; thorough production engineering training; a record of sound accomplishment as a Works/Production Manager; the ability to lead and blend all technical and administrative production services; able to play a leading part in the gradual introduction of modern management techniques; experienced in the problems of producing a variety of pressed and welded assemblies; at present living in the West Midlands.

Salary by arrangement.

Prospects are good.

Written applications, which will be treated in strict confidence, to:

W. E. HARRISON & CO.,
MANAGEMENT CONSULTANTS,
TUDOR HOUSE,
BRIDGE STREET, WALSALL.

ENGLISH ELECTRIC

AVIATION LIMITED

*Guided Weapons Division · Stovenage · Herts
have vacancies in the*

PRODUCTION ENGINEERING DEPARTMENT

Production Engineers

Age 28-45 years with experience in medium/heavy structural and fabrication work or medium/light machining and material work and having a sound knowledge of materials, castings and forging techniques.

Applicants must be experienced engineers, fully conversant with modern manufacturing techniques, imaginative and original in thought, capable of working as a semi-integrated member of the design team advising on and accepting the responsibility for the producibility aspect of design for equipment demanding high functional reliability. Previous design appraisal experience essential.

Manufacturing Development Engineers

Age 30-45 years with experience in the development of machining, manipulation and processing techniques of ferrous and non-ferrous materials or in the development of miniaturised and high density electronic assembly manufacturing techniques.

Applicants must have had considerable specialist experience in the investigation and development of specific manufacturing techniques, processes and equipment. An energetic interest in the successful conclusion and practical application of new techniques, to satisfy technical design requirements within specific programmes is essential.

Project Estimators

Age 35-45 years. Applicants must be fully experienced and capable of estimating projects of a Mechanical/Electronic nature at all stages of development, from the design study stage to the production stage. The ability to discuss design features and recommend means of cost reduction is highly desirable.

Preference will be given to men with H.N.C. and starting salaries will be competitive, compatible with age and experience.

The Company is pleased to help with initial removal expenses and may be able to assist with subsistence allowances and later obtaining housing locally.



Please apply in confidence to:

W. de M. Seaman, Room 834/D,
English Electric Aviation Ltd.,
Six Mills Way,
Stovenage, Herts.

A COMPANY OF
BRITISH AIRCRAFT CORPORATION

Senior Jig and Tool Draughtsman, Experienced man, preferably with H.N.C. or similar qualification, is required for a wide variety of jig and tool design work. The position offers excellent prospects of advancement for a younger man. Applications in confidence to: Personnel Officer, Crompton Parkinson (Chelmsford) Ltd., Chelmsford, Essex.

MSL have been retained to advise on this appointment.

Group Work Study Engineer

for a precision engineering company with headquarters in the Midlands. The company has an issued share capital exceeding £1m. and over 2,000 employees.

He will co-ordinate and advise the factories on work study, layout, methods of manufacture and production efficiency generally. To do this will require several years' experience of work study as applied to small batch production in the precision light engineering field. This must have been preceded by a basic engineering and work study training; a formal qualification in mechanical or production engineering would be an advantage. Relevant consulting experience would also be appropriate. Age 30 to 45. Salary £2,250 to £3,000 plus bonus. Please send brief details in confidence quoting reference HH. 3824 to P. Hook.

In no circumstances will a candidate's identity be disclosed to our client unless he gives permission after a confidential interview at which he will be given full details of the appointment.

MANAGEMENT SELECTION LIMITED

17 Stratton Street, London, W.1.

MSL have been retained to advise on this appointment.

Senior Productivity Consultant

for a company controlling its expanding production by advanced methods of efficient operation.

In a factory using highly instrumented mass production methods, he will advise the General Manager on the application of operational research, production control, method study, work study, systems, procedures, wage incentives and organisation and methods.

Candidates must already hold a similar appointment in private or public industry or be practising industrial consultants. A degree in engineering, science, mathematics or statistical economics is essential. Salary not less than £2,250 with contributory pension scheme and insurance cover. Age 35 to 45. Assistance with house purchase. Please send brief details in confidence quoting reference HH. 9017 to P. A. Ashworth.

In no circumstances will a candidate's identity be disclosed to our client unless he gives permission after a confidential interview at which he will be given full details of the appointment.

MANAGEMENT SELECTION LIMITED

17 Stratton Street, London, W.1.

Production Engineer required by general engineering company in the East Midlands. The company produce a large range of products in the medium/heavy engineering category generally on a batch basis, and applicants should be qualified engineers with experience of machine and fitting shops, foundry and boiler and fabrication shop processes. The applicant appointed will be responsible for production methods, ratfixing and work study, being in control of the appropriate section of the Production Control Department. He must possess initiative, drive and tact in handling personnel. Pension scheme. Housing assistance, if required. Applications, in confidence, to: The Managing Director, Box No. 2043, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

Tools Engineer required for well-established engineering Company based in London. An interesting position involving responsibility for tooling programmes for new factories abroad. Recognised apprenticeship and varied experience in tool design for large quantity production essential. Specialist experience in press work and die casting moulds an advantage. H.N.C. in Mechanical or Production Engineering is desirable. Age preferred 30 - 45 years. Commencing salary in the region of £1,500 per annum according to experience and qualifications. Full details in the first instance to be sent in confidence to: Mr. N. E. Cornish, Messrs. L. W. Bailey & Partners, Industrial Consultants, Ensign House, 190 Northolt Road, Harrow, Middlesex.

W. H. ALLEN SONS & CO. LTD., BEDFORD

wish to appoint

An Experienced Work Study Engineer

(Ref. 1610E/8)

and

An Experienced Production Engineer

(Ref. 1611E/8)

to fill vacancies created by promotion.

The posts are of a senior character carrying monthly staff status.

Candidates for the Work Study Engineer's position should be fully experienced in all aspects of method study and work measurement, with particular emphasis on the use of Management controls. The ability to compose concise reports to the Management upon investigations and studies carried out on their own initiative is an essential requirement. Candidates should preferably have had experience on small batch production of medium engineering components.

Candidates for the Production Engineer's position should be capable of originating and developing important manufacturing techniques over the Company's wide range of products, on a one-off and small batch basis, which includes steam turbines, pumps, diesel engines and electrical machinery.

Application forms giving conditions of service, etc., should be obtained from: The Personnel Manager, Queens Engineering Works, Bedford (quoting relevant reference No.).

FISHER AND LUDLOW LIMITED MATERIAL HANDLING DIVISION SENIOR PROJECT ENGINEERS

Due to increasing demands for our services we require several top flight engineers to join our Projects Team.

If you are aged 30 or over with a number of years' experience in senior appointments in design, planning and production, possess at least H.N.C. or equivalent and are capable of handling large material handling projects from inception to completion, we would be interested to hear from you.

This position calls for engineers who can:

- Carry out detailed surveys and investigations in customers' premises.
- Advise customers on how best to solve their particular problems.
- Prepare schemes (which on occasions run into seven figures) and carry the sole responsibility for such contacts from inception to completion.

Applications, which will be treated in strictest confidence, should be addressed to:

**THE PERSONNEL MANAGER,
FISHER & LUDLOW LTD.,
MATERIAL HANDLING DIVISION,
POST OFFICE BOX 12,
5 BEAN ROAD, TIPTON, STAFFS.**

SENIOR WORK STUDY ENGINEER

A well qualified and ambitious Senior Work Study Engineer aged 25 to 40 is offered first-class career potential in our progressive Rubber and Plastics Cable Division. Previous experience is naturally essential, not specifically in the cable industry, though this is a decided advantage. The right man will be paid a substantial salary, and will have the benefit of a non-contributory pension scheme, sick pay and life assurance.

Please apply fully in writing to:

S. G. DEANE,

Standard Telephones and Cables Limited

CORPORATION ROAD, NEWPORT, MON.

GIDDINGS & LEWIS — FRASER LTD.

— ARBROATH —

invite applications for a

SENIOR PRODUCTION ENGINEER

experienced in Ratefixing, Production Planning and Tooling Techniques as applied to machine tool production.

Applicant should be able to co-ordinate the staff of sections engaged in those functions. Applicant should apply in writing to: **Chief Production Engineer**, giving details of qualifications, experience and salary required.

DEVELOPMENT DRAUGHTSMAN

required for small progressive tool and machine manufacturing company in Stafford. The situation offers an exceptional opportunity for a forward thinking man to develop into a very senior executive. Apply to:

**MANAGING DIRECTOR,
STAFFORD TOOL & DIE CO. LTD.,
GAINSBOROUGH WORKS,
ST. PATRICK'S PLACE, STAFFORD.**

Senior Planning Engineer. Cincinnati Milling Machines Ltd. have a vacancy for an experienced man with an extensive knowledge on batch type production. Preferably with Higher National Certificate and knowledge of cost accounting and estimating. Age 28-40. Salary grading commensurate with qualifications and experience. Applications will be treated confidentially and should be by letter to: Woodlands Farm Road, Tyburn, Birmingham, 24.

Ratefixer. This new appointment offers an excellent opportunity to those having experience, preferably in high-class coachbuilding or engineering plants. Location North-West London. Excellent employee benefits; our salary range can match your qualifications. Write fully, stating age, etc., to: Box No. 2044, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

METHODS ENGINEER

This appointment covers the application of Methods Engineering to direct production and to functions other than direct factory processes.

The successful applicant should have preferably had experience in more than one industry and be able to apply his basic training to the problems of cost reduction by way of Method Study, Work Measurement, Plant Layout and Materials Handling. He will have a sound understanding of the problems of production. Applicant must be of H.N.C. standard, at least, and be between 27-40 years of age.

If you meet the above specification and want to take part in active, progressive application of Methods Engineering, please apply in writing to:

**THE WORKS MANAGER,
THE SPENCER WIRE CO. LTD.,
P.O. Box 14, Wakefield,
Yorkshire.**

MORPHY-RICHARDS

require

PRODUCTION METHODS ENGINEER, aged 28-40 with a thorough practical knowledge of flow production engineering methods. A background of experience in tool making and tool design concerned with sheet metal work or electric motor assembly would be of value. H.N.C. standard preferred.

JIG AND TOOL DESIGNER, aged 28-40 with a tool making background and sound experience of jigs, gauges and press tools associated with light engineering. Education to O.N.C. standard.

Please telephone for further details or write to:
**Personnel Officer at St. Mary Cray, Kent.
(Orpington 27000.)**

Time Study Engineer. Cincinnati Milling Machines Ltd. have a vacancy for an experienced man approximately 30 years of age. Should have technical qualifications at least of O.N.C. standard. Salary and grading commensurate with qualifications and experience. Applications will be treated confidentially and should be by letter to: Woodlands Farm Road, Tyburn, Birmingham, 24.

PLANNING AND METHODS ENGINEERS

Experienced planning and methods engineers are required to join the Technical Division of a well-known firm of Consultants. They must be capable of undertaking consulting work in advanced production methods and tool engineering either in the light, medium or heavy engineering industry, or in the automobile industry.

A sound knowledge of modern machine tools and their application is most essential and applicants will have had experience at senior level in a good production planning and estimating department in the appropriate industries.

These posts provide excellent opportunities and prospects for men between the ages of 30-45 with a Degree or equivalent qualification in mechanical engineering and/or production engineering. H.N.C. will be acceptable if backed by good experience.

A starting salary of £1,300 upwards to £2,000, or more according to experience, is offered. Other benefits include a non-contributory insurance and pension scheme.

This is a first-class opportunity for men of ability to widen their horizons in a professional field at home and abroad if desired. Every opportunity will be given to men to improve and expand their specialist knowledge.

Apply in confidence, giving brief personal particulars to:

**Reference C/QMT/25,
Production-Engineering Ltd.,
12 Grosvenor Place,
London, S.W.1.**

NOËL CLARK & PARTNERS LTD.

Young executives, under 35 years, with Engineering or Science Degree, are required for training as

Management Consultants for Organisation and Work Study in Offices and Factories

Salary range £1,200 - £2,400 plus expenses. Apply in writing to: **The Secretary, Noël Clark & Partners Ltd., 16 Sheet Street, Windsor.**

Production Controller required for a modern Works at Crawley, Sussex, employing approximately 300 people and with plans for substantial expansion during the next five years. A wide range of laboratory and industrial centrifuges is produced. Applicants should preferably have experience in planning the issue and progress of work through various departments and supervision of stores records and buying department. Housing available after a trial period. MSE Precision Manufacturers Ltd., Spenser Street, London, S.W.1.

Deputy Works Manager

Applications are invited for the post of Deputy Works Manager within our Company. He will be a keen and energetic type between 30 and 42, with the following qualities:

- Background of drop forging
- Experience in short runs
- Organising and planning ability
- Supervisory experience

Excellent prospects for the right man to be promoted to Works Manager within reasonable time. Good salary and pension schemes.

Send applications to:

**Joint Managing Director,
Armstrong, Stevens & Son Ltd.,
Willenhall, Staffs.**



MICHELIN

requires

Engineers for appointment to Production Management positions after a careful introduction to the Company's systems and methods.

These appointments, which have occurred as the result of recent promotions and the need for further development, provide excellent opportunities for ambitious men to share in the expansion of a very progressive international Company.

Candidates should be in the age range 28 - 40 and should be members of recognised professional institutions. They must have Industrial Management experience.

The Company pays good salaries, which are reached by individual agreement. It operates good pension and insurance schemes and a comprehensive scheme of housing assistance.

There are excellent opportunities for overseas service if desired.

Applications should be made to: **H. A. Dille, Ref. No. PE/113, Michelin Tyre Co. Ltd., Stoke-on-Trent, Staffs.**

N.B. It is of interest to note that Stoke-on-Trent is not in the "Black Country" and that the majority of our Management staff live in purely residential areas away from the industrial environment but within 2-3 miles of the factory.

Methods Development Engineer. This appointment is to be made in our Engineering Division which is mainly concerned with the manufacture of "Jones" Mobile Cranes. Responsibility will be to the Chief Production Engineer for the development and introduction of new methods and processes in the widest possible sense. The work will include Project Development, Method Research, Factory Layout and Materials Handling. Our main production process includes machining of components up to one ton weight, fabrication, painting and assembly. Applicants should be in the age range 28-35 with a professional qualification. They must have had a good practical and

technical training followed by experience in planning and processing of medium size components and have a sound knowledge of the latest production techniques for batch production. This is a senior appointment and carries appropriate salary and conditions with excellent prospects and opportunities to apply imagination and enthusiasm. Applications, giving details of training, experience, and career to date, with salary achievements, may be sent in complete confidence to: The Personnel Director, K. & L. Steelfounders & Engineers Ltd. (one of 600 Group of Companies), Letchworth, Herts.

"So you're going to a meeting . . ."

an invaluable guide for anyone involved in the organisation of and/or attendance at business meetings and conferences.

by Sir WALTER PUCKEY, M.I.Prod.E.

The author of this book needs no introduction to production engineers. His experiences—amusing and otherwise—in attending a wide variety of business and professional meetings inspired him to prepare this comprehensive handbook on the efficient conduct and organisation of such meetings, for the maximum benefit to all concerned.

CHAPTER HEADINGS INCLUDE:

The Purpose of a Meeting; Planning the Objective; What Size Meeting?; Planning the Meeting; Following Through; The Agenda; Asking Questions; The Power of Speech.

While Sir Walter deals with his subject in an entertaining manner, the book nevertheless is packed with useful information, including many examples of how meetings should **not** be conducted. Committee Secretaries and Chairmen in particular will find this little publication of immense practical help. Copies, price 5s. 4d. each (including postage), may be ordered from the Publications Department of the Institution, using the form below.

PLEASE CUT OUT

To: Publications Department,
Institution of Production Engineers,
10 Chesterfield Street, Mayfair,
London, W.1.

Please send me.....copies of "So You're Going to a Meeting".

I enclose remittance of....., made payable to "The Institution of Production Engineers".

PLEASE
WRITE
CLEARLY

NAME.....
ADDRESS.....
.....
.....

EDUCATIONAL APPOINTMENTS

HATFIELD COLLEGE OF TECHNOLOGY

Principal: Dr. W. A. J. Chapman,
M.Sc.(Eng.), M.I.Mech.E., M.I.Prod.E.

LECTURER required to specialise in Control Engineering. The successful applicant will be expected to teach Instrumentation and Control Engineering to H.N.C. level. Applicants should possess sound technological qualifications and good industrial experience.

Salary: £1,370 x £35 x £40 — £1,550.

Further details obtainable from: **The Registrar, Hatfield College of Technology, Herts.**

Bristol College of Science and Technology, Ashley Down, Bristol, 7.

Lecturer in Production Engineering. The Governors invite applications for post of Lecturer in Production Engineering. Applicants should be graduates or hold equivalent professional qualifications, and should have teaching, industrial and/or research experience. Duties will include teaching students taking Diploma in Technology courses in Aeronautical and Mechanical Engineering, and Higher National Diploma and Higher National Certificate courses in Production Engineering. Research and consulting work are encouraged. Salary, according to experience and qualifications, within range £1,370 - £1,550. Scale at present under review. Details and application forms from the Registrar. Please quote reference CST 61/19.

City of Sheffield Education Committee, College of Technology, Department of Engineering.

Applications are invited for the following posts, duties to commence at latest in September, 1961: (a) **Senior Lecturer in Control Engineering and Electronics** to teach in Higher National Diploma and Certificate courses, to promote the teaching of these subjects, to develop new laboratories now being erected, to organise special post-graduate courses and to initiate research. Interest in the teaching and experimental work of Statistics, Quality Control and Operational Research will be welcomed. (b) **Senior Lecturer in the Engineering of Production** to teach a reasonable selection from machine tools, metrology, principles of engineering production and production processes, to assist in the development of the Higher National Diploma and Certificate courses, to promote research in machining and metrology, to organise post-graduate courses and to exploit the full possibilities of the existing machine tool and metrology laboratories and the mechanical deformation laboratory now in course of construction. Interest in automatic control devices will be welcomed. Applicants for these posts should hold graduate qualifications, be corporate members of an engineering Institution and have had adequate responsible experience in industry. Ability to teach is essential. Salary scale: £1,550 x £50 — £1,750 per annum. Application forms, obtainable with further particulars and a prospectus of the Department from: T. H. Tunn, Director of Education, P.O. Box 67, Sheffield, 1, should be returned within 14 days of the appearance of this advertisement (stamped addressed envelope).

The College of Aeronautics, Cranfield.

Applications are invited for the appointment of **Senior Lecturer in Machine Tool Technology** in the Department of Production and Industrial Administration. The person appointed will be required to supervise a comprehensive programme of research into machine tool performance in a new and well-equipped laboratory. Supporting facilities will be provided by the Departments of Mathematics, Materials and Electrical Engineering. An important part of the research work will be the development of a series of experiments specially designed to assist in the teaching of the new and advanced technologies of engineering manufacture in universities and technical colleges. The salary will be within the scale £1,900 x £75 — £2,425 per annum, with superannuation under F.S.S.U. and family allowance, the commencing salary depending upon the qualifications and experience of the successful candidate. Consideration will be given to housing requirements. Applications, giving full particulars of experience and qualifications and the names and addresses of three persons to whom reference may be made if required, should be forwarded to: The Recorder, The College of Aeronautics, Cranfield, Bletchley, Bucks. Further particulars are available.

South-East Essex Technical College, Longbridge Road, Dagenham.

Required (in September, if possible): **Assistant, Grade B to teach Production Engineering subjects** of National Certificate courses, and City and Guilds classes. Ability to teach motor vehicle technology and practice would be an advantage. Applicants should preferably be academically qualified for corporate membership of The Institution of Mechanical or Production Engineers and have had industrial and some teaching experience. Salary £700 x £27 10s. (15) x £37 10s. (1) to £1,150 per annum, plus additions for approved training and graduate qualifications. Salary subject to additional London Allowance of £38 or £51 per annum. In assessing the commencing salary, increments above the scale minimum will be allowed for war/national service and previous relevant experience. Application form and further particulars from the Clerk to the Governors.

The Royal College of Science and Technology, Glasgow (Department of Industrial Administration.)

Applications are invited for appointment as **Lecturer in Method Study** in the Department of Industrial Administration of the Royal College of Science and Technology. Knowledge of associated techniques would be an added advantage. Adequate qualifications and experience are essential. Salary on scale £1,050 x £50 — £1,400 x £75 — £1,850 per annum with F.S.S.U. and Family Allowances. Special qualifications and experience will be required in salary placing. Form of application from: The Secretary, George Street, Glasgow, C.1.

IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

Applications are invited for admission to the following
postgraduate courses in the 1961-1962 Session.

Postgraduate Course in Production Engineering

In this one-year course training in modern methods in production engineering is provided for engineering or science graduates preferably with some industrial experience. A limited number of vacancies for holders of Higher National Certificate or equivalent qualifications is available. The course includes lectures and tutorials in:

Industrial Engineering
Economics for Engineers and Applied Scientists
Industrial Sociology
Quality Control

Statistics
Production Technology
Work Study

and includes several optional subjects to cater for special interests. Students have to carry out a special investigation and submit a thesis in the later part of the course. During the year, several visits to industrial concerns are arranged.

Postgraduate Course in Operational Research and Management Studies

This is a new course, planned to start in October, 1961, its purpose being to train engineering or science graduates (preferably with some industrial experience) in methods of operational analysis of managerial problems. Lectures and tutorials include:

Industrial Engineering
Work Study
Statistical Methods and Operational Research
Techniques
Industrial Sociology and Methods of Social
Enquiry

Inventory Control
Quality Control
Computers
Economic Problems of Industry and Trade

Admission to these courses is limited. Enquiries for further details and applications for admission should be directed to:

THE REGISTRAR,
IMPERIAL COLLEGE,
LONDON, S.W.7.

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